Important Subject to Be Taken Up at Meeting of Contest Board.

By JEROME SHAW, of the Horseless Age.

Standardization in the management of the various automobile speedways is rapidly approaching, as is indicated by the recommendations for changes in the rules governing speedway contests made by representatives of the leading motor rourses to the contest board of the American Automobile Association. These recommendations were made at a meet-ing at which the speedways selected dites for the running of their 1917 events and will be considered at a meetirst of the contest board on Tuesday, with the probability that all of them will be adopted.

Most important in the action taken at the conference of speedway man-agers with Chairman Kennerdell of the contest board was the selection of dates for the running of the 1917 championship contests. It was decided that these events be restricted to speedways and that no more than one championship award race be held on each track during the year. The minimum distance of these races is to be 100 miles, and the minimum cash prize at the rate of \$100 a mile. The eight championship contests are scheduled as follows: In-dianapolis, May 30; Chiengo, June 9; Omaha, July 4; Des Moines, July 14; ma, July 25; Cincinnati, Septembl; Providence, September 15, and York, September 29. In the event that the new speedways now under course of construction at Philadelphia and Uniontown. Pa. are completed dates will also be assigned to them.

will also be assigned to them.

As a step toward popularizing motor racing the speedway men suggested that the drivers in the 1917 races carry numbers corresponding to their positions in the 1916 championship standing. Under this arrangement if Johnny Aitken wins the championship title his car in all the 1917 events will carry No. 1. The driver coming fifteenth in the standing this year will handle car No. 15 in all his 1917 races, and so on. In this way the identification of the drivers will be an easy matter for race folwill be an easy matter for race fol-lowers. It will be obligatory on the part of the five leading drivers in the 1917 championship that they appear in each of the championship events. A certifi-cate from the chairman of the contest beard or from the technical committee A. A. A. will be the only excuse fered for non-appearance.

Not only will the drivers gain prestige

rendered the drivers by the payment of from \$100 to \$150 to cover transporta-tion charges for themselves and cars. This money is to be paid by the speedways to drivers of cars qualifying and to buy an old car cheap. Money seems starting in the different races, and in the event of a driver finishing in the jection to paying a thousand deliars prize money the \$100 or \$150 will be or more for a good car deducted from his award. Non-prize "All eight cylinder cars are thoroughly deducted from his award. Non-prize

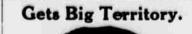
A. A. A sanctioned events.

The speedway managers in addition to selecting the dates for the championship award events on their tracks also spip award events on their tracks also arranged for other races.

A. A. A sanctioned events.

Is now in vogue. The new car sales to batte for repersion of the sale of used cars. This is done for the sale of used cars. This is done for the sale of used cars exclusively.

Arranged for other races.





L. J. GOLDMAN.

When L. J. Goldman left the vicewhen L. J. Goldman left the vice-presidency of the Duffy Motors Corpora-tion to go into business for himself, he organized T. S. Johnston & Co., and at once became Eastern sales manaur for the entire Monroe line and opened head-quarters at 1746 Broadway And his next move was to get strong representa-tion for the Monroe line in the metro-politan district by getting the Mason Motor Car Company to handle sales in

branch in Newark, has some sound ideas Not only will the drivers gain pressige by scoring well up in the championship standing, but there will be a direct monetary award from the speedway managers for the senson's leaders, as ceptionally brisk condition. We find the contest board \$10 for each car starting in a championship event. This money is to be split between the

winners will be given the money outright. The possibilities of drivers not 
sectiving the full amount of their prize 
money, as was the case at two speeds 
way meets this year, will be obviated 
by the adoption of a rule requiring the 
deposit of all prize money with the contest board ten days in advance of all 
A. A. a sanctinued events.

NEGLECT IS WORST ENEMY OF THE STORAGE BATTERY

End-Symptoms of Trouble and How to Meet Them.

> By J. EDWARD SCHIPPER of "The Automobile." (In Two Parts-Part L.)

All three important forms of energy— simple. It is simply a device which such an in acid and discharges electrical and chemical— breathes in acid and discharges electrical. mechanical, electrical and chemicalare used in the modern automobile. The mechanical has been with us so long that even the schoolboy is quite familiar with its principles. The electrical has been used in other lines to such an extent that it is not altogether a mystery.

The chemical form, which is used in only when the battery is expelled from the lungs over the wires while the acid enters them. This one place—the storage battery—seems to be buried deep in uncertainty. Like most unknown quantities it is avoided. and it is this condition that makes the average owner a contributor to an anmual sum of \$50,000,000 a year which may be called the neglected battery fund. The worst feature of this enormous loss and wastage is that it is due not so much to wilful neglect as to lack of knowledge of what ought to be done and lack of information on what happens if does not put air in his tires they will disintegrate much more rapidly than if the pressure is kept up to normal, Still a certain percentage will neglect the air in the tires anyway. This same per-centage will neglect the care of the battery even after they know what this carclessness is doing. The majority, however, realizing the results of not maintaining a proper state of affairs, take pains to see that conditions are

Motor Car Company to ...

The combination got off to a good start and now everything is bosoning. The new Monroe M 4 touring car is a finished automobile relling for only \$5.50.

In the car at this price are most unusual. The car is worth investigating the because it is honestly built and splendight of painting and trim.

TISED CAR POLICY.

Neglect of the car rarely occurs, throws that if oil is not put line motor the cylinders will score and the inference of No. In of painting and trim.

Neglect of the car rarely occurs, throws that if oil is not put line motor the cylinders will score and the inference of the car are long as it would be if it were kept properly lubricated. Wear is compensated for by adjustment. When a part is slightly out of order it is repaired at once before the damage goes further and affects parts which would otherwise remain in good condition.

All these principles apply to the chemical side of the car—in other words the well as they do to it well as they do to it

used car department at the Cadillac cause certain well defined conditions to exist just the same as it will cause rim cutting in tires, scoring in cylinders and other definite conditions in the me-

other definite conditions in the meranket in and around Newark in an exsecutionally brisk condition. We find
that a house like the house of Cadillae
has established such a reputation that
the average buyer will take the word
of the used car manager, because he
knows we tell the exact truth of the
condition of the car that we are selling.
If the motor needs overhauling we tell
the purchaser so, and if the motor has
been overhauled, we tell him just what
work has been done on it. Paople are
willing to pay more for a good car than
to buy an old car cheap. Money seems well being. He knows that good foed will preserve his health. He knows that good oil will preserve his motor, but he

Storage battery books can be secured

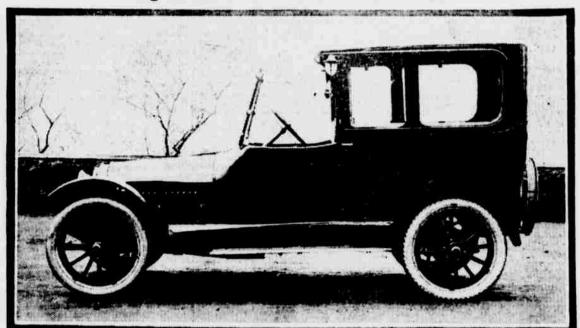
An Autopsy on Cells Which Have Met an Untimely

the fundamental process which takes Any departure from normal conditions the battery shortens its life just as my departure from normal conditions illife affects the health and period of existence of a man. A man must do a normal amount of work, take a normal amount of food and have a normal amount of food and have a normal amount of sleep to remain in the pest physical condition. A battery likewise must take a certain amount of food and must do a certain amount of work and have a certain amount of rest to attain its full period of life. The electrient system on the car is designed maintain a proper balance between ; 'ceding and exercise of the battery. utors to the annual \$50,000,000 egjected battery fund. The first lesson that every battery

fricity or, conversely, breathes in elec-fricity and discharges acid. The acid is the liquid which surrounds the lungs

does not know, taking motorists as a body, just exactly what will happen to his storage battery, the chemical ele-ment of the car, if he neglects it.

Big Demand for This Buick Town Car.



A. L. Newton, sales manager of the local branch of the Buick Motor Company, was in Amesbury, Mass., last week, urging the body builders there to burry their several closed cars for delivery, when he found that this particular car was ready to ship to New York.

Owing to the congested condition of freight, it looked as if it might be two weeks before the car would arrive here.

Newton asked the body people if there of gas. Newton says that the fact that he has had this particular car on the was a garage right across the street, he ordered the car down the street, he ordered the car down the late and drove it, all through the night, into New York, arriving at the Buick salesmoon the next that is being used in the bighest grade cars. The car sells for \$2.500, delivered cars.

This trip of 318 miles was made at here, and has been greatly admired by was gasolene and cylinder of it is to has had this particular car on the street, he ordered the car down the late tanks, and at it of clock, all through the night, into New York, arriving at the Buick salesmoon the next that is being used in the high says been just.

The trip of the car is a blue slik through the night, into New York, arriving at the Buick salesmoon the next that is being used in the bight product that is a being selected that the has had this particular car on the strength of the car down the late tanks, and at it is the trip of the car is a blue slik through the night into New York, arriving at the Buick salesmoon floor has enabled him to take there was a garage right across the has had this particular car on the base had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particular car on the business that the has had this particula

When it comes to tampering with the carbureter on a car, the best advice is "don't." So says Max Hagelstine, manager of the service department of the Studebaker Corporation.

Many Mourn Kjeldsen, Hollere kernipan, He was prihate better known automobile strets are hourn. He was prihate better known automobile strets are hourn. He was prihate that of sales manager of the highly surves in automobile strets are hourn. He was prihate that of sales manager of the strength automobile strets are hourn.

the Studebaker Corporation.
"Many meterists want to change the adjustment of the carbureter with every decided change of weather," continues Mr. Hareletine. "They seem to them; the carbureter ought to be adjusted one way when the day in dry, another when it is wet, still another when it is bot, and again when it is cold. "Sometimes the owner himself tries to make the adjustment, and at other times be turns the lab. times he turns the job over to a garage man. What he should do instead is either to consult the dealer for the car,

or else the local representative of the carbureter company, if there is one in his town.

"Now, it is true that the mixture should "Now, it is true that the mixture should be rich or lean, according to the kind of weather. But adjustment of the carbureter is the wrong way to secure the proper mixture. The right way is to make use of the 'choke,' which on Studebaker cars is located on the dash. Pulling this 'choke' out secures a rich mixture, and that method should be adopted when the motor is cold. After the engine is running for a while and gets warm, the 'choke' should be and gets warm, the 'choke' should be

"What happens when the carbureter tas been tampered with to sentre a teh mixture is that gasolene is wasted and the condition in general invites the correction of carbon deposits. That means less of power, and incidentally

A. L. Newton, sales manager of the Newton asked the body people if there of gas. Newton says that the fact that

DON'T TOUCH CARBURETER, it militates against economy, aside from the likelihood of getting the carbureter mechanism out of adjustment. So make the likelihood with the automobile business here for ten years, his last position being that of sales manager for the



Battery Troubles and Repairs.

Electrolyte gravity won't Electrolyte gravity won't

Battery box disintegrated

Terminals correded Jars break rapidly.

t is not doing so this departure from normal is cutting into the life of the auttery and making its owner one of the contributors to the annual \$50,000,000

owher receives is to keep water in it and to be sure that the liquid is cov-ering the plates to the extent of at least one-half in. The Willard company alone has spent \$250,000 a year in educating the public to do this and other necessary work. The campaign has had becessary work. The campaign has had its effect, so that now batteries which perish through the lack of added water, have dropped from 30 per cent, to around 30 per cent. But even 30 per cent, its so large that it is still found necessary by this concern to keep pounding away with its campaign. The percentage of people who know what they are avoiding by keeping the water in the battery is very small and it is interesting to point out what occurs from this neglect.

## Only Covered Plates Active.

Remembering that it is necessary for the plate or lung of the battery to breathe in acid before it can discharge electricity, it will be seen that only those This is true both of the negative and po itive plates in a battery. The nega-tive plate, which contains a pure gray sponge lead, will crystallize above the point where it was submerged in liquid. This crystallized condition is commonly known as sulphation. The positive plate Storage battery books can be secured in any quantity and so can standardized l'ections on exactly how to take care of the battery; what the average owner does not know, however, is what is harpening when this neglect occurs, and it is purposed to show some of the actual conditions which have been found in patterness brought into service stations. with its brown lead peroxide also suffers conditions which have been found atteres brought into service stations or repair long before the normal time or the end of the battery's life had invived.

Primarily, the action of a battery is when the battery is not filled with electrolyte or flushed, as it is called, results in what battery men know as charging while dry. Owing to the rapid rate in which the small available plate area which the small available plate area receives the current, what electrolyte is left rapidly boils away. The dry part of the plate, which is carrying the current, becomes warm due to the resistance of the grids. In the case of the negative plate sulphate soon forms, turning the active material into the hard, white rystalline structure, while with the posifive plate the active material is first blistered, due to the heat, and this soon causes the plate to warp or buckle. breaking down the insulation or wood separator between the negative and posi-tive plate, thereby short circuiting the two and rendering them useless. The battery, in other words, gradually be-

New jar. Repair Cause Cracked or broken jar. Recharge at slow rate of amps.

Go to service station if possi-ble—if sure battery is other wise O.K. add acid in outside container to bring up gravity replace when cool. Refill with water and inspect regularly or after generator regulation.

Battery capacity low.

Battery low.

Specific gravity too low.

Electrolyte down to 1.100. One cell dead

Large sediment deposit

Battery dead from usage.

that it is thoroughly scaled to prevent Never pour the water into the acid, but damage and leakage, the addition of the acid into the water. If the water water is the only actual administration is poured into the acid the heat is genthal the owner can as a general rule crated so rapidly that it may result in that the owner can as a general rule give his battery. But if this is carried out it will generally prevent a great damage, many troubles which can result indi-rectly, as well as directly, from a tem-charge t

to use pure water, such as distilled or melted artificial lee, in order that the pures of the active material in the plates are not clogged with impurities. The effect of temporary neglect is

place. A simple experiment will, trouble, enstrate this to you very clearly. (To be continued next Sunday.)

an explosion, which might cause serious

Draw out quantity with

Increase the generator output -- have battery charged on outside current.

Go over wiring and renes

Use distilled water only or melted artificial ics.

Clean with ammonia or wash-

See that proper cleate and bolts are fitted.

Bring specific gravity up to 1 275 by charging—see that generator gives 20 per cent, more chircht than lamp con-sumption.

Give reforming charge at 3 amps, until up to maximum density.

Take battery to service sta-tion at once, as material has become loosened.

Do not fill so full.

porary period of neglect. It is necessary partial crystallization or sulphation, as charge will be seen to be gassing or it is generally known, which the generally known, which the generalized by the bubbling. This rise in temperature must erator is not always capable of bringing be very carefully watched, or it will do

When the battery is receiving its

charge the acid is leaving the plates and entering the water. This naturally causes a rise in temperature of the electrolyte. The resistance of the grids and other parts of the storage battery also causes a rise in temperature, and the electrolyte of a battery receiving a parts of the plates which are covered with the acid solution can bear any share of the burden of producing current. All of the plate above the level of the liquid is dead and useless. It is not receiving any food and it is not doing any work. If the arm of a man were shut off from the blood supply and die. The unfed and unwerked portion of the battery plate does the same thing. The material in it dries up. This is true both of the negative and possible. win have the effect of resident and the control of the charge the more dition, although it is very selection that the free dition, although it is very selection that the can be brought altogether back.

When sulphure acid is poured into perature rise. It is therefore very important the control of the solution will being charged too rapidly, lest it cause take place. A simple experiment will trouble.

# INTEREST GROWS IN EGAN ROAD BILL

Plan to Improve Jersey Roads Without Extra Tax Widely Approved.

From his bed in Christ Hospital, Jersey City, where he is recovering from an operation for appendicitis, George M. Blakeslee is directing the campaign to carry to a successful finish the Egan Good Roads bill which comes up for referendum vote of Jersey citizens on Election Day, November 7. The bill, which in all probability will be passed, nasmuch as both Democrats and Republicans favor it, will mean the issuing of \$7,000,000 worth of bonds, the money to he used for the construction of more than 500 miles of continuous trunk line State roads. This entire \$7,000,000 is to he paid for by automobile registration fees and fines during the next fourteen years. These fees are to continue on the Resolder connectors and plate Renew separator and keep

years. These fees are to continue on the same scale as at present and are not to be raised, so that motorists will benefit greatly by the passage of the bill and non-motorists will not be subjected to any additional tax.

Mr. Blakeslee has a telephone at his bedside and uses it as many hours a day as the ductors will permit, and he sees the members of the Good Roads Committee daily, who call to his attention reports from various parts of the State showing the progress that is being made. Meetings are held every evening and frequently in the afternoon in numerous towns throughout the State, speakers was throughout the State, speaker

towns throughout the State, speakers addressing various clubs, civic bodies and boards of trade in behalf of the Egan bill, which was conceived by Mr. Blakeslee and introduced into the Legislature by Senator Egan.

The many New Jersey commuters whose business is in New York are being urged by their New York associates to vote for the bill and to induce their relends to do likewise. In fact, New friends to do likewise. In fact, New Yorkers are more vitally interested and actually working for the passage of this good roads bill more than any other bill which has come up in New Jersey since the days of the reciprocity act.

## AMERICAN CHAIN COMBINE.

Weed Chain Manufacturers to Purchase Pittsburg Concern.

During a banquet given by the American Chain Company, Incorporated, of Bridgeport, Conn., to its distributers of Weed sire chains it was announced that the American Chain Company had purchased the Standard Chain Company of Pittsburg, Pa., and that for combining the sales and part of the office force of the two companies were in preparation and would probably be put into effect by January 1, 1917.

Mercers Will Race West.

Mercer racing activities will be confined to California for the remainder of this year. Two of the Mercer company's dri-vers, Eddie Pulica and Joe Thomas, have

## Showing Simplicity of the Famous Dann Insert.



breaking down the insulation or wood separator between the negative and positive plate, thereby short circuiting the two and rendering them useless. The battery, in other words, gradually becomes burned up through charging while dry.

Owner Adda Water Only,

Owner Adda

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We require our students to educate bands ears and even as well as the

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Autos Are Cheap Now Swellest Lot of Good Cars

dies, 48 Parkard Soday Electrical apped, \$1 150 backard Compo. \$750 other Parkards \$40 \$1,800, \$ G. V. Sicarus kraish Limosofie Solo
Isotta Town Car. 2000. Coloratia Kulku Isotta Town Car. 2000. Coloratia Kulku Isottasia. 21.20. Chevyoleta all'atyles 10. modela, cheap. Cadillacs. Tours. Eights Touring Coupelettes, Landaulettes, Limeasines (all Eight 7.50 M high \$5.00. Julius \$100. Flats. 55.00. Selection 10.00. Chalmers, \$170. to \$7.00. Mercers. 10. high abouts, Sedain. chalmers, \$15 to \$5.50; Mercers, \$20, 5.50; hall abouts, Seidats.
Overlands, Buicks, 1918 to 1911. Percent (1911), \$205; Suitzes, 1911. Util. 1918 \$550 up.
Locomobile Landaulette, \$450; Merceles Limoustne, \$225; Halliday, \$13, 1550 seems 5000. National Kondster State.
1917. Starbbaker, \$37, Halliday, \$1, 1550 coldsmobiles, \$150, 50 and \$12,215. \$100 up.
Halpmobiles, \$150, 50 and \$12,215. \$100 up.
Willys Knight Edunations, dissurprint 680.
Cost \$2,700 at \$850 up. of the percent for the portunities. Rechalong, Lances Knight, Studebakers, Metallurgie Locale, New Arman Bailly, "Square Deals,"

Jandorf Automobile Co., 1761, 1763 E'way, near 57th St

SANFORD, 51 East 42d St. 5 LANCIA HIGH GHAN overhanded, reports of the Ronkson-Scott of the Fr

DOTA STRAINS (SINCE DOTAGE CONDITION NOT SEE NO. 1806 Disable

three Westmann and terring and terring and terring and terring and terring and terring the terring and MERCHINES FLOO near Broadway

HANDSOME PAIN IS A New Departure Section 2 this Hillson's Struck SIA and Significant Annual Control of the Room 201, 111 Uron Lane.

WANTED- He is the colors.

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